

# INSURV Submarine Weapons / Deck

## USS \_\_\_\_\_ SSBN-\_\_\_\_\_

### Inbrief:

#### All:

- Please ensure S/F rep for each event reports deficiencies to CSO
- Inspection status is as of time of inspection.; no guarantees on reinspects
- Anchor ops: CSO (ENG), TMC (MLPO), or other anchor supervisor see me during U/W
- Escape trunk inspections: I expect to see two escape hatches open and shut from topside
- If there are particular areas of ship's concern, let my assistants or myself know to look at it.

#### Sonar:

- Radiated Noise Inspection (NSWC) vs. equipment checks (FTSC).
- Plan on 3 hours of dedicated self noise monitoring which includes standard machinery lineup and HVMS checks. This requires coordination with ENG and HVMS man (typically E-div).
- Please brief CO and INSURV coord. on ship impact (machinery lineup, speed, depth for Los, cav curve)
- Significant noise defi or mission degrade: please give me an opportunity to listen in sonar.
- CSMP review

#### TM:

- Tube Loads: selected weapon each tube on surface, expect to load a weapons or shape in each tube at test depth. Also, expect to index weapons/shapes to all stows on the surface and at test depth.
- Pyro/ammo flood test iaw MRC
- Small arms inspection
- 3" lchr interlock checks ASAP while on surface unless impossible, otherwise open/inspect day.
- Flood control checks (URO-25 for guidance only, not complete URO) This has to be briefed before test depth.
- AEL / spot check inventory special tools for MK 48/ADCAP, tomahawk, and torpedo tube
- Weapons Loading Gear inspections. This may take part of RTP day. If there is a significant problem in this area, we could ask to rig Weapons Loading Skid
- CSMP review.

#### FT:

- Waterslugs: 1 set of four during surface max speed from control. All others are shot from TR.
- CSMP review.
- Run selected MRC's, report discrepancies to inspector.

#### 1st LT/Deck LPO

- Escape Trunk Hatches. I expect to see two open and shut from topside.
- Man Overboard Gear, Helo Transfer Bag inspections.
- 10 of each type of life preservers.
- 50 Steinke Hoods for inspection, or sight inspection of SEIE stowage.
- Anchor and capstan gear case oil samples after RTP if requested.
- I go topside with your linehandlers to observe cleat ops, capstan ops and general conditions topside. (Please provide MK V AIULP, nonskid shoes) allows.

#### Life rings:

- I will inspect all on-board.

#### Strategic Fire Control:

- Conduct SMP's indicated in separate IG
- BRT
- CSMP review

#### Strategic Launchers:

- Conduct MRC's indicated in separate IG
- Pressurized WSRT
- CSMP review
- In port under hatch inspection of selected tubes.

### Ship's Personnel:

CSO: \_\_\_\_\_ Sonar Officer/AWEPS: \_\_\_\_\_ ST: \_\_\_\_\_ TM: \_\_\_\_\_  
FT: \_\_\_\_\_ 1st LT: \_\_\_\_\_ Deck: \_\_\_\_\_ Scuba Diver: \_\_\_\_\_

### Ship's Equipment:

Sonar:

Fire Control:

ARCI Phase:

Tactical Support System: AN/BYQ- 6(V)2/AN/BYQ-6(V)3; Processor (TAC-3, TAC-4); SFMPL version:

WLR-9:

AN/BQR-22:

Fat Line Towed Array:

Fat Line Towed Array Handler:

Thin Line Towed Array:

Thin Line Towed Array Handler:

### Admin

#### Pre-Inspection

CO's Letter

OOC List

CSMP

Noise ESL (NSWC)

CASREP file

CSRR report, Salvage Inspection, Drydock report

Verify Weapons special tools AELs (torpedo tube, MK 48/ADCAP, UGM-109A) \*\* Return ASAP \*\*

Deck Div AELs: Liferrafts, Helo Transfer gear, Man overboard gear.

Scuba gear AEL

Underway agenda feedback to ships force coordinator/XO.

#### During Inspection

Open and Inspect List

PMS Assessment:

MRC \_\_\_\_\_ Last done (date) \_\_\_\_\_ Successfully accomplished? Yes/No/Partial (circle one)

Remarks:

MRC \_\_\_\_\_ Last done (date) \_\_\_\_\_ Successfully accomplished? Yes/No/Partial (circle one)

Remarks:

MRC \_\_\_\_\_ Last done (date) \_\_\_\_\_ Successfully accomplished? Yes/No/Partial (circle one)

Remarks:

MRC \_\_\_\_\_ Last done (date) \_\_\_\_\_ Successfully accomplished? Yes/No/Partial (circle one)

Remarks:

#### Post-Inspection

Quicklook message input

TLD

OUTBRIEF: copy to Weps

Report card, Metrics, stoplight data

Assist Critiques

Other bean counts as requested

Pay Messbill

Ship's outbrief

## **Specific Equipment Criteria**

### **Escape Trunk (see separate sheet)**

#### **SEIE System**

Ref: MIP H-409/005

Observe/Inspect:

- Storage Locker forward (check seal, inspect interior)
- Crash Bag inventory forward (see MRC)
- Desalinator forward
- Storage Locker Aft (check seal, inspect interior)
- Crash Bag inventory aft (see MRC)
- Desalinator aft
- Inventory Log:
  - List of escape suits and valises (ser. number, date of package, stowage location)
  - Inspection and inventory dates with signature
  - 10 yr shelf life
  - Rotation forward to aft (prevent prolonged overheating)

Other Observations:

### **MK V AIULP or MK 1 Stearns Auto Inflatable Life Vest**

Ref:

1. MIP 5832/012 (MK 5) or 5832/014 (MK 1)
2. N/S T/M SS 710-AB-MMO-010
3. N/S Ltr 03G/72 of 20May94
4. Flash Jan-Mar 04, Jan-Feb 03, Oct-Dec 02, Jun-Jul 02, Apr-May 01(Parts List), Feb-Mar 01(Shear Wire NSN)
5. Ship's Safety Bulletin 2QTR97

Observe/Inspect:

- Stab. Mod installed correctly
- Whistle - right pocket grommet
- Sea Dye marker: 48" nylon
- PML not yet expired
- DML Battery (no swelling)
- DML wire leads 18" (ref 6)
- Anti-Sabotage Compound on CO<sub>2</sub> retaining nut
- Proper CO<sub>2</sub> cartridge (MIL C-25369) (longer 5 ¼ in. - not shorter)
- CO<sub>2</sub> O-ring (CONAX, not S-TRON)
- Auto inflator battery (MRC U-1)
- Activation device copper wire seal
- Reflective Tape on bladder
- Torque wrench calibrated (ILS)

Other Observations:

## **KAPOK or Sterns Inherently Buoyant life preservers**

Ref:

1. MIP 5832/007 (Kapok) or 5832/015 (Stearns)

Observe/Inspect:

- Ref. Tape (10x6 L, 8" sides, 10" back)
- Cover: rips, tears.
- Whistle
- Straps: good condition, not tied
- Harness D-ring hole sewn in.
- PML or DML

Other Observations:

## **Steinke Hoods**

Ref:

1. MIP H-409/003
2. NSTM CH-77
3. NSTM CH-594-4.2.6 (Face Shield Repair)

Observe/Inspect:

- Silicon on cover snaps (A-1)
- Dated inspection tag
- Oral tube not bent
- Knurled ring closed
- Face shield: no cracks, holes. Not folded. Cracks can be repaired.
- Mouthpiece protective cover
- Snorkel dust cover
- Whistle & nose clip tied to grommet
- Buddyline: length, hole size.
- Sea Dye marker: 48" line w/ bowline
- Zipper seal
- Reflective tape (NSTM)

Other Observations:

## **Man Overboard Gear**

Ref: AEL, MRC, SSM Inventory Sheet, NSTM

Observe/Inspect:

- Inventory vs. AEL (2-330023061). Note this does not match SSM or MRC.
- Jacob's Ladder proper
- Bridge Lifering: Ship name, refl. tape, DML, rope
  - (Some ships remove lifering from line because the height of the bridge and the ship's stopping distance would cause more problems. line would get)
- Topside Lifering: Ship name, refl tap, DML, rope
- Diver's gear check (AEL)

Other Observations:

## **Helicopter Transfer Gear**

Ref: AEL, MRC, SSM

Observe/Inspect:

- Inventory vs. AEL
- Grounding wand condition
- Wind Sock

Other Observations:

## **Three Inch Launchers**

Ref:

1. MRC WS-23/A-4R (Interlock Checks)
2. Illustrated Parts Breakdown
3. SSM

Op. Notes: Conduct Interlock checks ASAP on surface (MRC indicates conduct in-port, so it may be necessary to obtain permission to conduct this underway). It is preferred to conduct the MRC underway to identify problems early. Then, observe other events: SSXBT and SATCOM buoy (LCDP, local/pneumatic, any depth), waterslugs from control (any depth), hand ram waterslugs (any depth), and load./ backhaul inert shape at test depth.

Observe/Inspect:

- Interlocks Functional
- Flood Control Operational
- Packing Device upper lanyard
- Packing Device lower cap allen screw
- Tethered wire saddle (should be aligned and not cracked)
- Breech door surface
- Breech door gasket
- Wrenches for CL-18, 19 present/attached
- Muzzle ball leak
- Indications operative
- SSXBT Launch
- SATCOM Launch
- Shoot From Control (Waterslugs)
- Hand Rammer Op-check
- Inert Device Fit check at Test Depth

Other Observations:

## **Small Arms**

Ref:

1. MRC 7611/001 R-1
2. NAVSEA OP-4 Ammunition Afloat
3. NAVSEAINST 8011.02A
4. CNSFINST 8500.4, CWM
5. OP-2238 (color coding and labeling)
6. FLASH Articles
7. Tech manuals for 9 mm, line throwing kit

Op Notes: Verify most recent arms inventory list from NSWC (R834). Check condition and interlocks on selected weapons.

Observe/Inspect:

- Small Arms Locker Lock
- Small Arms Locker door condition: hinges, etc.
- Small Arms inventory
- Small Arms dirt, rust, oil
- Line Throwing Kit condition

Other Observations:

## **Force Protection / Anti Terrorism**

Ref:

1. AEL
2. CSNF Force Protection Manual

Observe/Inspect:

- Inspect equipment on AEL
- General condition
- \$3K/qtr available to purchase FP equipment
- Semi-Annual inspection req'd per ref 2.

## **Ammo Locker Flood Test**

Ref:

1. MRC 5221/S-1
2. NAVSEA OP 4
3. SSM OI 631-5, FP-10
4. SSM Vol 2-9 PIP 8
5. NAVSEA 804-1360106

Observe/Inspect:

- Test casting cover lanyard
- Flood valve locked and secure
- TD-38 initially cracked open (SSM OI 631-5, FP-10)
- Ammo Locker Thermometer
- Ammo Locker Door Gasket
- Ammo Locker Drain Line
- Ammo Locker lagged IAW OP 4
- Pyro Locker Thermometer
- Pyro Locker Door
- Pyro Locker has means to prevent pyro shift
- Ammo far side signs
- Funnel clean

Other Observations:

## **Radiated Noise Monitoring**

Ref: Radiated Noise Inspection Guide approved by CSL, CSP, INSURV

Op Notes:

See Radiated Noise Inspection Guide.

Ensure Ship's force questions are answered early (before midwatch).

The LOS cuts and HVMS are normally conducted on first midwatch. Following LOS cuts and HVMS, demonstrate RNE program ability to produce db levels for specific freq.

Observe/Inspect:

- Rattles
- Tonals
- Broadband
- Cavitation
- Transients
- Ability to conduct Los cuts with TB-16
- Ability to collect and process HVMS data

Other Observations:

## **Large Angles**

Ref: INSURVINST 4730.2E

Op Notes: Observe 1 set in TR, 1 set between sonar and capstan space, and 1 set in sonar or in control room.

Observe/Inspect:

- Stowage
- Water overflow
- Equipment malfunctions

Other Observations:

## **Anchor Demonstration**

Ref:

1. INSURVINST 4730.2E
2. SSM

Operational Notes: If Initial free fall UNSAT, then walk out 1 fm, retrieve, and attempt freefall from fully housed position. If free fall still UNSAT, walk out 1 fm and try to free-fall from that position.

Observe/Inspect:

- Anchor Indication
- Initial Free Fall
- Bandbrake Operation
- Chain Lock
- Windlass operation
- Free fall from 1 fm (if required)
- Second free fall from fully housed (if required)
- Hydraulic leaks

Other Observations:

## **Topside**

Ref: INSURVINST 4730.2E

Observe/Inspect:

- Capstan Operation
- Cleat well drainage
- Cleat ease of operation
- SA Valve Covers
- Safety track test (stop-spots, attachment points, joint integrity)

Other Observations:

## **Floating Lifeline**

Ref:

1. N/S DWG 804-5000915 (SSN 688)
2. N/S DWG 612-6408925 (SSN 21)
3. Naval Safety Center Website (FLASH)

Observe/Inspect:

- 14 buoys max each section
- Sections linked with CRES snaphook, lines spliced
- Bumper centerline dist: 44" midspan, 68" others
- Tiewrap goes thru two strands, goes thru twice
- Missing bumpers

Other Observations:

## **Miscellaneous Open and Inspect Items**

Ref: INSURVINST 4730.2E

Observe/Inspect:

- SSBN: esc trunk hatch cycling from topside
- Stanchions, topside setup
- Tattletales on ship's force lines
- Tattletales on squadron-provided lines
- FET access
- Anchor gearcase oil: water, metal particles
- Capstan gearcase oil: water, metal particles
- Weapons loading and handling gear

Other Observations:

## **Superstructure**

Ref: Ship's drawings

Observe/Inspect:

- Rust beyond minor surface corrosion
- Moss grates (condition, spacers)
- Grease Boots
- Cleat cavity drains
- Loose gear (water and electrical caps not secured to lanyard)
- Grounding straps
- Sound Tiles
- Paint



Other Observations

### **Paint Condition**

Ref:

1. NAVSEA RFI 00-003
2. NAVSEA Interior Visual Surface Condition Standard
3. JOINT FLEET MAINTENANCE MANUAL (VOL 4)
4. SHIPS DRAWINGS (E.G. PAINT SCHEDULES)
5. NSTM 9086-VD-STM-010/CH-631 PRESERVATION OF SHIPS IN SERVICE
6. GENERAL OVERHAUL SPECIFICATIONS (FOR EXAMPLE NAVSEA 0902-018-2010 FOR DEEP DIVING SSN/SSBN SUBMARINES)
7. MS 6310-081-015 SUBMARINE PRESERVATION MAINTENANCE STANDARD

Observe/Inspect:

- Paint color: Correct and matches
- Paint texture: gloss vs. flat
- Paint splatter
- Paint techniques (e.g. feathering)
- Coating appearance, surface prep
- Paint on sound mounts
- Paint on surfaces that are corrosion resistant
- Paint applied to surfaces with difficult access
- Paint over rust

Other Observations: